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 Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known		
		Application Number	10/688.193	
		Filing Date	10/17/2003	
		First Named Inventor	Virgil L. Woods, Jr.	
		Group Art Unit	2657 1656	
Examiner Name	Unknown Noakes			
1	of	7	Attorney Docket Number	041673-3202

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
SMN	A1	5,658,739		Woods Jr.	08-19-1997	
SMN	A2	6,291,189		Woods Jr.	09-18-2001	
SMN	A3	6,331,400		Woods Jr.	12-18-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
SMN	A4	BAI <i>et al.</i> , "Thermodynamic Parameters from Hydrogen Exchange Measurements," <i>Meth. Enzymol.</i> 259:344-356 (1995)	
	A5	BAI <i>et al.</i> , "Primary Structure Effects on Peptide Group Hydrogen Exchange," <i>Proteins: Struct. Funct. Genet.</i> 17:75-86 (1993)	
	A6	BENJAMIN <i>et al.</i> , "Long-Range Changes in a Protein Antigen Due to Antigen-Antibody Interaction," <i>Biochemistry</i> , 31:9539-9545 (1992)	
	A7	CHI <i>et al.</i> , "Use of Deuterium-Hydrogen Exchange to Characterize the Fragmentation Pathways of Arteether and its Metabolites in a Thermospray Mass Spectrometer," <i>Org. Mass Spectrometry</i> 7:58-62 (1993)	

Examiner Signature	/Suzanne Noakes/	Date Considered	09/27/2006
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SMN	A8	CONNELLY <i>et al.</i> , "Isotope Effects in Peptide Group Hydrogen Exchange," <i>Proteins: Struct. Funct. Genet.</i> 17:87-92 (1993)	
	A9	DENG and SMITH, "Identification of Unfolding Domains in Large Proteins by Their Unfolding Rates," <i>Biochemistry</i> 37:6256-6262 (1998)	
	A10	DHARMASIRI and SMITH, "Mass Spectrometric Determination of Isotopic Exchange Rates of Amide Hydrogens Located on the Surfaces of Proteins," <i>Anal. Chem.</i> 68:2340-2344 (1996)	
	A11	ENGEL and SMITH, "A Powerful New Approach That Goes Beyond Deciphering Protein Structures," <i>Anal. Chem.</i> 73:256A-265A (2001)	
	A12	ENGLANDER and ENGLANDER, "Structure and Energy Change in Hemoglobin by Hydrogen Exchange Labeling," <i>Meth. Enzymol.</i> 232:26-42 (1994)	
	A13	ENGLANDER <i>et al.</i> , "Protein Hydrogen Exchange Studied by the Fragment Separation Method," <i>Anal. Biochem.</i> 147:234-244 (1985)	
	A14	ENGLANDER <i>et al.</i> , "Individual Breathing Reactions Measured in Hemoglobin by Hydrogen Exchange Methods," <i>Biophys. J.</i> 10:577-589 (1979)	
	A15	ENGLANDER and POULSEN, "Hydrogen-Tritium Exchange of the Random Chain Polypeptide," <i>Biopolymers</i> 7:379-393 (1969)	
↓	A16	ENGLANDER and ROLFE, "Hydrogen Exchange Studies of Respiratory Proteins," <i>J. Biol. Chem.</i> 248:4852-4861 (1973)	

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		Group Art Unit	2857 1656		
Examiner Name	Unknown Noakes				
Sheet	3	of	7	Attorney Docket Number	041673-3202

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SMN	A17	ENGLANDER and ENGLANDER, "Hydrogen-Tritium Exchange," <i>Meth. Enzymol.</i> 26:406-413 (1972)	
	A18	ENGLANDER <i>et al.</i> , "Hydrogen-Tritium Exchange," <i>Meth. Enzymol.</i> 49:24-39 (1978)	
	A19	ENGLANDER <i>et al.</i> , "Protein Structure Change Studied by Hydrogen-Deuterium Exchange, Functional Labeling, and Mass Spectrometry," <i>Proc. Natl. Acad. Sci. USA</i> 100:7057-7062 (2003)	
	A20	ENGLANDER <i>et al.</i> , "Hydrogen Exchange: The Modern Legacy of Linderstrom-Lang," <i>Protein Sci.</i> 6:1101-1109 (1997)	
	A21	ENGLANDER and ENGLANDER, "Hydrogen-Tritium Exchange Survey of Allosteric Effects in Hemoglobin," <i>Biochemistry</i> 26:1846-1850 (1987)	
	A22	FESIK <i>et al.</i> , "Amide Proton Exchange Rates of a Bound Pepsin Inhibitor Determined by Isotope-Edited Proton NMR Experiments," <i>Biochem. Biophys. Res. Commun.</i> 147:892-898, (1987)	
↓	A23	HAMURO <i>et al.</i> , "Domain Organization of D-AKAP2 Revealed by Enhanced Deuterium Exchange-Mass Spectrometry (DXMS)," <i>J. Mol. Biol.</i> , 321: 703-714 (2002)	

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**INFORMATION DISCLOSURE
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Sheet 4 of 7

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Application Number 10/688.193
 Filing Date 10/17/2003
 First Named Inventor Virgil L. Woods, Jr.
 Group Art Unit 2857 1656
 Examiner Name ~~Unknown~~ NOAKES
 Attorney Docket Number 041673-3202

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
SMN	A24	HAMURO <i>et al.</i> , "Phosphorylation Driven Motions in the COOH-Terminal Src Kinase, Csk, Revealed Through Enhanced Hydrogen-Deuterium Exchange and Mass Spectrometry," <i>J. Mol. Biol.</i> 323:871-881 (2002)	
	A25	HAMURO <i>et al.</i> , "Dynamics of cAPK Type II β Activation Revealed by Enhanced Amide H/ ² H Exchange Mass Spectrometry (DXMS)," <i>J. Mol. Biol.</i> 327:1065-1076 (2003)	
	A26	HOOFNAGLE <i>et al.</i> , "Changes in Protein Conformational Mobility Upon Activation of Extracellular Regulated Protein Kinase-2 as Detected by Hydrogen Exchange," <i>Proc. Natl. Acad. Sci. USA</i> 98:956-961 (2001)	
	A27	KATTA and CHAIT, "Hydrogen/Deuterium Exchange Electrospray Ionization Mass Spectrometry: A Method of Probing Protein Conformational Changes in Solution," <i>J. Am. Chem. Soc.</i> 115:6317-6321 (1993)	
	A28	KIM and BALDWIN, "Influence of Charge on the Rate of Amide Proton Exchange," <i>Biochemistry</i> 21:1-5 (1982)	
	A29	LOUIE <i>et al.</i> , "Salt, Phosphate and the Bohr Effect at the Hememoglobin Beta Chain C Terminus Studied by Hydrogen Exchange," <i>J. Mol. Biol.</i> 201:765-772 (1988)	
↓	A30	MANDELL <i>et al.</i> , "Measurement of Amide Hydrogen Exchange by MALDI-TOF Mass Spectrometry," <i>Anal. Chem.</i> 70:3987-3995 (1998)	

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Examiner Name	Unknown NoAKES				
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SMN	A31	MAYNE <i>et al.</i> , "Effect of Antibody Binding on Protein Motions Studied by Hydrogen-Exchange Labeling and Two-Dimensional NMR," <i>Biochemistry</i> 31:10678-10685 (1992)	
	A32	MCCLOSKEY, "Introduction of Deuterium by Exchange for Measurement by Mass Spectrometry," <i>Meth. Enzymol.</i> 193:329-338 (1990)	
	A33	MOLDAY <i>et al.</i> , "Primary Structure Effects on Peptide Group Hydrogen Exchange," <i>Biochemistry</i> 11:150-158 (1972)	
	A34	PATERSON <i>et al.</i> "An Antibody Binding Site on Cytochrome c Defined by Hydrogen Exchange and Two-Dimensional NMR," <i>Science</i> 249:755-759 (1990)	
	A35	PEDERSEN <i>et al.</i> , "A Nuclear Magnetic Resonance Study of the Hydrogen-Exchange Behavior of Lysozyme in Crystals and Solution," <i>J.Mol.Biol.</i> , 213:413-426 (1990)	
	A36	RESING and AHN, "Deuterium Exchange Mass Spectrometry as a Probe of Protein Kinase Activation. Analysis of Wild-Type and Constitutively Active Mutants of MAP Kinase Kinase-1," <i>Biochemistry</i> 37:463-475 (1998)	
↓	A37	RESING and AHN, "Protein Phosphorylation Analysis by Electrospray Ionization-Mass Spectrometry," <i>Meth. Enzymol.</i> 283:29-44 (1997)	

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Sheet 6 of 7

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SMN	A38	RESING <i>et al.</i> , "Modeling Deuterium Exchange Behavior of ERK2 Using Pepsin Mapping to Probe Secondary Structure," <i>J. Am. Soc. Mass Spectrometry</i> 10:685-702 (1999)	
	A39	ROGERO <i>et al.</i> , "Individual Breathing Reactions Measured by Functional Labeling and Hydrogen Exchange Methods," <i>Meth. Enzymol.</i> 131:508-517 (1986)	
	A40	ROSA and RICHARDS <i>et al.</i> , "An Experimental Procedure for Increasing the Structural Resolution of Chemical Hydrogen-exchange Measurements on Proteins: Application to Ribonuclease S Peptide," <i>J. Mol. Biol.</i> 133:399-416 (1979)	
	A41	ROSA <i>et al.</i> , "Hydrogen Exchange from Identified Regions of the S-Protein Component of Ribonuclease as a Function of Temperature, pH, and the Binding of S-Peptide," <i>J. Mol. Biol.</i> 145:835-851 (1981)	
	A42	ROSA <i>et al.</i> , "Effects of Binding of S-Peptide and 2'-Cytidine Monophosphate on Hydrogen Exchange from the S-Protein Component of Ribonuclease," <i>J. Mol. Biol.</i> 160:517-530 (1982)	
	A43	SMITH <i>et al.</i> , "Probing the Non-covalent Structure of Proteins by Amide Hydrogen Exchange and Mass Spectrometry," <i>J. Mass Spectrometry</i> 32:135-146 (1997)	
↓	A44	THEVENON-EMERIC <i>et al.</i> , "Determination of Amide Hydrogen Exchange Rates in Peptides by Mass Spectrometry," <i>Anal. Chem.</i> 64:2456-2358 (1992)	

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SMN ↓	A45	WANG, <i>et al.</i> , "Hydrogen Exchange-Mass Spectrometry," <i>Moll. Cell Proteom</i> , 1:132-138 (2002) (we have a copy in the file)	
	A46	WINGER <i>et al.</i> , "Probing Qualitative Conformation Differences of Multiply Protonated Gas-Phase Proteins via H/D Isotopic Exchange with D ₂ O," <i>J. Am. Chem. Soc.</i> 114:5897-5989 (1992)	
	A47	WOODS and HAMURO, "High Resolution, High-Throughput Amide Deuterium Exchange-Mass Spectrometry (DXMS) Determination of Protein Binding Site Structure and Dynamics: Utility in Pharmaceutical Design," <i>J. Cell. Biochem.</i> , 37:89-98 (2001) <i>pub on web 29 Jan 2002</i>	
	A48	ZAWADZKI <i>et al.</i> , "Dissecting Interdomain Communication Within cAPK Regulatory Subunit Type II β Using Enhanced Amide Hydrogen/Deuterium Exchange Mass Spectrometry," <i>Protein Sci.</i> 12:1980-1990 (2003)	
↓	A49	ZHANG and SMITH, "Determination of Amide Hydrogen Exchange b Mass Spectrometry: A New Tool for Protein Structure Elucidation," <i>Prot. Sci.</i> 2:522-531 (1993)	

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